

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index No. \_\_\_\_\_  
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Port of Survey \_\_\_\_\_

Date of Survey 24.12.35

Name of Surveyor \_\_\_\_\_

Particulars of Classification 710A1

(Type of Superstructures.)

Ship's Name SAKER III Nationality and Port of Registry Norwegian Oslo Official Number - Gross Tonnage 1196 Date of Build 1923

Dimensions: Length 235.0 Breadth 35.83 Depth 16.08

Displacement at moulded draught = 85 per cent. of moulded depth 2464 tons

of fitness for use with Tables 749

(M) E

Depth for Freeboard (D)

... .. 16.08

... .. .04

Proposed deck

=

Depth for Freeboard (D) =

16.12 ✓

## Depth correction

- (a) Where D is greater than Table depth  
(D - Table depth) R =  
 $(16.12 - 15.67) \times 1.807 = +.81$  ✓
- (b) Where D is less than Table depth (if allowed)  
(Table depth - D) R =

If restricted by superstructures

## Round of Beam correction

Moulded Breadth (B) 35.83

Standard Round of Beam =  $\frac{B \times 12}{50} = 8.6$

Ship's Round of Beam = 9.00

Difference .40

Restricted to

Correction =  $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{.40}{4} \times .2745 = -.03$  ✓

## DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
145.25	145.25	3.0	$\frac{3.0}{3.9} =$	111.73
25.25	25.25	7.21		25.25
170.50	170.50			136.98

Standard Height of Superstructure 6.0" " R.Q.D. 3.90Deduction for complete superstructure 29.5Percentage covered  $\frac{S}{L} = 72.55$ " "  $\frac{S_1}{L} = 72.55$ " "  $\frac{E}{L} = 58.30$  ✓Percentage from Table, Line A, Timber 74.44 ✓  
(corrected for absence of forecastle (if required))Percentage from Table, Line B. ✓  
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =  $29.5 \times 74.44 = -21.96$  ✓

## SHEER CORRECTION.

Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
33.50	1		33.50	25.50	25.50	1		25.50
14.90	4		59.60	11.26	11.26	4		45.04
3.69	2		7.38	2.81	2.81	2		5.62
-	4		-	-	-	4		-
7.37	2		14.74	7.30	7.30	2		14.60
29.81	4		119.24	29.23	29.23	4		116.92
67.00	1		67.00	66.00	66.00	1		66.00
			301.46					273.68

Mean actual sheer aft = DeficientMean actual sheer forward = DeficientLength of enclosed superstructure forward of amidships = > 1L" " aft of " = > 1LDifference between sums of products  $(75 - \frac{S}{2L}) = \frac{27.78}{18} (75 - \frac{3627}{3873}) = +.60$  ✓If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft. ✓

## Tropical Freeboard.

Winter and Winter North Freeboard.

Freeboard Deck = 19.12 ✓

Freeboard = 3.87 ✓

Moulded draught (d) = 15.25 ✓

Tropical freeboard and addition for

Freeboard = d inches = 3.81 = 3.81

Addition for Winter North Atlantic Freeboard (if required) = 1.8 = 5.09 = 5 ✓

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 2760$ 

Tons per inch immersion at summer load water line

 $T = 16.9$ Deduction =  $\frac{\Delta}{40T}$  inches $= 4.08 = 4$  ✓

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{749 + .68}{1.36} = \frac{1.429}{1.36} =$ 

	+	-
Depth Correction	.81	-
Deduction for superstructures	-	21.96
Sheer correction	.60	-
Round of Beam correction	-	.03
Correction for Thickness of Deck amidships	36.00	-
Other corrections, scantlings, etc.	-	-
	37.41	21.99

Summer Freeboard = 46.31 ✓

Timber SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel/Deck :-

Timber Tropical Fresh Water Line above Centre of Disc	17 1/2" = 444
" Fresh Water Line	13 3/4" = 349
" Tropical Line	13 1/2" = 343
" Winter Line above	4 3/4" = 121
" Winter North Atlantic Line below	4 3/4" = 121
Summer above	9 3/4" = 247

Tropical Fresh Water Freeboard	3 2 1/2" = 978
Fresh Water	3 6 1/4" = 1073
Tropical	3 6 1/2" = 1079
Winter	4 3 1/4" = 1301
Winter North Atlantic	5 0 3/4" = 1543